

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#) | [Search Form](#) | [Posting Counts](#) | [Show S Numbers](#) | [Edit S Numbers](#) | [Preferences](#) | [Cases](#)**Search Results -**

Terms	Documents
L3 AND SULFURIC ACID	3

**Database:** [US Patents Full-Text Database](#)[US Pre-Grant Publication Full-Text Database](#)[JPO Abstracts Database](#)[EPO Abstracts Database](#)[Derwent World Patents Index](#)[IBM Technical Disclosure Bulletins](#)**Search:**L4[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** **Thursday, June 26, 2003** [Printable Copy](#) [Create Case](#)Set Name Query  
side by sideHit Count Set Name  
result set*DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L4</u>	L3 AND SULFURIC ACID	3	<u>L4</u>
<u>L3</u>	L2 AND EXTRACT\$5 AND FERMENTAT\$5 AND STRIP\$5	4	<u>L3</u>
<u>L2</u>	L1 AND LACTIC ACID.TI.	30	<u>L2</u>
<u>L1</u>	RATIO WITH LACTIC ACID WITH LACTATE	100	<u>L1</u>

END OF SEARCH HISTORY

## WEST

## Search Results - Record(s) 1 through 10 of 30 returned.

 1. Document ID: US 20030004375 A1

L2: Entry 1 of 30

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030004375  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030004375 A1

TITLE: Process for producing a purified lactic acid solution

PUBLICATION-DATE: January 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mizrahi, Joseph	Haifa	MN	IL	
Eyal, Aharon	Jerusalem		IL	
Riki, Canari	Jerusalem		IL	
Hazan, Betty	Jerusalem		IL	
Starr, John N.	Chaska		US	

US-CL-CURRENT: 562/589              2. Document ID: US 20020128508 A1

L2: Entry 2 of 30

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020128508  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020128508 A1

TITLE: PROCESS FOR THE RECOVERY OF LACTIC ACID

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
EYAL, AHARON MEIR	JERUSALEM	MN	IL	
WITZKE, DAVID	EDEN PRAIRIE	MN	US	
FISHER, ROD	EDEN PRAIRIE		US	

US-CL-CURRENT: 562/485; 562/580, 562/589, 562/593              3. Document ID: US 20020102672 A1

L2: Entry 3 of 30

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102672  
 PGPUB-FILING-TYPE: new  
 DOCUMENT-IDENTIFIER: US 20020102672 A1

TITLE: PROCESS FOR PRODUCING A PURIFIED LACTIC ACID SOLUTION

PUBLICATION-DATE: August 1, 2002

## INVENTOR- INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
MIZRAHI, JOSEPH	HAIFA	MN	IL	
EYAL, AHARON	JERUSALEM		IL	
RIKI, CANARI	JERUSALEM		IL	
HAZAN, BETTY	JERUSALEM		IL	
STARR, JOHN	CHASKA		US	

US-CL-CURRENT: 435/139

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

 4. Document ID: US 20020004611 A1

L2: Entry 4 of 30

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004611  
 PGPUB-FILING-TYPE: new  
 DOCUMENT-IDENTIFIER: US 20020004611 A1

TITLE: Lactic acid processing; methods; arrangements; and, products

PUBLICATION-DATE: January 10, 2002

## INVENTOR- INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Eyal, Aharon M.	Jerusalem	MN	IL	
Starr, John N.	Chaska	MN	US	
Fisher, Rod	Eden Prairie	IA	US	
Hazan, Betty	Jerusalem	MN	IL	
Canari, Riki	Beit Zeit	MN	IL	
Witzke, David R.	Oskaloosa		US	
Gruber, Patrick R.	Blaine		US	
Kolstad, Jeffrey J.	Wayzata		US	

US-CL-CURRENT: 562/589

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn Desc](#) | [Image](#)

 5. Document ID: US 6534679 B2

L2: Entry 5 of 30

File: USPT

Mar 18, 2003

US-PAT-NO: 6534679  
 DOCUMENT-IDENTIFIER: US 6534679 B2

TITLE: Lactic acid processing; methods; arrangements; and, products

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KIMC](#) [Drawn Desc](#) [Image](#)

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6. Document ID: US 6475759 B1

L2: Entry 6 of 30

File: USPT

Nov 5, 2002

US-PAT-NO: 6475759

DOCUMENT-IDENTIFIER: US 6475759 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Low PH lactic acid fermentation

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KIMC](#) [Drawn Desc](#) [Image](#)

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7. Document ID: US 6403844 B1

L2: Entry 7 of 30

File: USPT

Jun 11, 2002

US-PAT-NO: 6403844

DOCUMENT-IDENTIFIER: US 6403844 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Condensed phase catalytic hydrogenation of lactic acid to propylene glycol

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KIMC](#) [Drawn Desc](#) [Image](#)

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8. Document ID: US 6342626 B1

L2: Entry 8 of 30

File: USPT

Jan 29, 2002

US-PAT-NO: 6342626

DOCUMENT-IDENTIFIER: US 6342626 B1

TITLE: Process for the preparation of alkyl esters from commercial lactic acid

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KIMC](#) [Drawn Desc](#) [Image](#)

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9. Document ID: US 6320077 B1

L2: Entry 9 of 30

File: USPT

Nov 20, 2001

US-PAT-NO: 6320077

DOCUMENT-IDENTIFIER: US 6320077 B1

TITLE: Lactic acid processing; methods; arrangements; and, product

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KIMC](#) [Drawn Desc](#) [Image](#)

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10. Document ID: US 6280985 B1

L2: Entry 10 of 30

File: USPT

Aug 28, 2001

US-PAT-NO: 6280985

DOCUMENT-IDENTIFIER: US 6280985 B1

TITLE: Process for the separation and purification of lactic acid from a fermentation medium[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

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## Search Results - Record(s) 11 through 20 of 30 returned.

11. Document ID: US 6229046 B1

L2: Entry 11 of 30

File: USPT

May 8, 2001

US-PAT-NO: 6229046

DOCUMENT-IDENTIFIER: US 6229046 B1

TITLE: Lactic acid processing methods arrangements and products[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KOMC](#) [Drawn Desc](#) [Image](#)

12. Document ID: US 5503750 A

L2: Entry 12 of 30

File: USPT

Apr 2, 1996

US-PAT-NO: 5503750

DOCUMENT-IDENTIFIER: US 5503750 A

TITLE: Membrane-based process for the recovery of lactic acid by fermentation of carbohydrate substrates containing sugars[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KOMC](#) [Drawn Desc](#) [Image](#)

13. Document ID: US 4467811 A

L2: Entry 13 of 30

File: USPT

Aug 28, 1984

US-PAT-NO: 4467811

DOCUMENT-IDENTIFIER: US 4467811 A

TITLE: Method of polarographic analysis of lactic acid and lactate[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KOMC](#) [Drawn Desc](#) [Image](#)

14. Document ID: US 4169102 A

L2: Entry 14 of 30

File: USPT

Sep 25, 1979

US-PAT-NO: 4169102

DOCUMENT-IDENTIFIER: US 4169102 A

TITLE: Process for the manufacture of partially neutralized mixed esters of lactic acid, citric acid and partial glycerides of fatty acids[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KOMC](#) [Drawn Desc](#) [Image](#)

15. Document ID: EP 86108 A2

L2: Entry 15 of 30

File: EPAB

Aug 17, 1983

PUB-NO: EP000086108A2

DOCUMENT-IDENTIFIER: EP 86108 A2

TITLE: Method of measuring lactic acid in a liquid.[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Drawn Desc](#) [Image](#) 16. Document ID: KR 2001035797 A

L2: Entry 16 of 30

File: DWPI

May 7, 2001

DERWENT-ACC-NO: 2001-587590

DERWENT-WEEK: 200166

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TITLE: Fermentation method controlling pH value and amount of acetic acid and lactic acid[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Drawn Desc](#) [Image](#) 17. Document ID: CN 1249301 A

L2: Entry 17 of 30

File: DWPI

Apr 5, 2000

DERWENT-ACC-NO: 2000-388278

DERWENT-WEEK: 200034

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TITLE: Process for preparing sodium lactate - by mixing lactic acid with methanol, ethanol or butanol and esterification[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Drawn Desc](#) [Image](#) 18. Document ID: JP 10000229 A

L2: Entry 18 of 30

File: DWPI

Jan 6, 1998

DERWENT-ACC-NO: 1998-113709

DERWENT-WEEK: 199811

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TITLE: Bioactive and bio:absorbable organic or inorganic complex for controlled release of drug having bone morphogenetic and bone conduction ability - consists of lactate polyester containing structural units derived from lactic acid and polyester derived from di:carboxylic acid and diol[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KIMC](#) [Drawn Desc](#) [Image](#) 19. Document ID: JP 09301875 A

L2: Entry 19 of 30

File: DWPI

Nov 25, 1997

DERWENT-ACC-NO: 1998-059095

DERWENT-WEEK: 199806

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TITLE: Blood dialysis formulation, without acetic acid - uses bi:carbonate as alkali and lactic acid-lactate system as buffer

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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20. Document ID: JP 09002999 A

L2: Entry 20 of 30

File: DWPI

Jan 7, 1997

DERWENT-ACC-NO: 1997-115231

DERWENT-WEEK: 199711

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TITLE: Aluminium lactate crystals prep. in high yield and purity - comprises adding lactic acid to basic aluminium lactate

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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21. Document ID: RU 2007448 C1

L2: Entry 21 of 30

File: DWPI

Feb 15, 1994

DERWENT-ACC-NO: 1994-270602

DERWENT-WEEK: 199433

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TITLE: Prodn. of vodka - from pure spirit, water, sugar, lactic acid and additionally sodium bi:carbonate, to improve quality

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KINIC](#) [Draw Desc](#) [Image](#)

22. Document ID: JP 05227911 A

L2: Entry 22 of 30

File: DWPI

Sep 7, 1993

DERWENT-ACC-NO: 1993-316572

DERWENT-WEEK: 199340

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TITLE: Flavouring compsn. - contains nucleic acid type flavouring substance, glutamic and, potassium and lactic acid, and sodium or potassium lactate

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KINIC](#) [Draw Desc](#) [Image](#)

23. Document ID: SU 1827622 A1

L2: Entry 23 of 30

File: DWPI

Jul 15, 1993

DERWENT-ACC-NO: 1995-012916

DERWENT-WEEK: 199502

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TITLE: Brain-stem functional state assessment method - by determining acid-base state indices and lactic acid, pyruvic acid and lactate-pyruvate ratio in blood samples

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KINIC](#) [Draw Desc](#) [Image](#)

24. Document ID: DE 3908974 A

L2: Entry 24 of 30

File: DWPI

Sep 20, 1990

DERWENT-ACC-NO: 1990-291271

DERWENT-WEEK: 199039

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TITLE: Agent for intermediate treatment of hair during permanent waving - contg. alpha ammonium epsilon caprolactam lactate and lactic acid, with little or no water

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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25. Document ID: JP 63039994 A JP 95026114 B2

L2: Entry 25 of 30

File: DWPI

Feb 20, 1988

DERWENT-ACC-NO: 1988-088515

DERWENT-WEEK: 198813

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TITLE: Good quality liq. detergent compsn. - contg. aliphatic prim. alcohol ethoxy:sulphate with lactic acid and:or lactate

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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26. Document ID: JP 63039852 A JP 93012341 B

L2: Entry 26 of 30

File: DWPI

Feb 20, 1988

DERWENT-ACC-NO: 1988-088434

DERWENT-WEEK: 198813

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TITLE: Prepn. of stabilised prim. alcohol ethoxy:sulphonate(s) - by sulphonating mixt. of prim. alcohol(s) and acetic acid with lactic acid and/or lactate(s)

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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27. Document ID: US 4626541 A

L2: Entry 27 of 30

File: DWPI

Dec 2, 1986

DERWENT-ACC-NO: 1986-338919

DERWENT-WEEK: 198651

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TITLE: Stable m-AMSA antitumour compsn. - contains lactic acid and pyroglutamic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#)

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28. Document ID: JP 61172847 A

L2: Entry 28 of 30

File: DWPI

Aug 4, 1986

DERWENT-ACC-NO: 1986-242905

DERWENT-WEEK: 198637

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TITLE: High purity basic aluminium lactate prepn. - by reacting pulverised aluminium metal with lactic acid in presence of mineral acid(s) and/or mineral acid aluminium salt(s) as catalyst

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 29. Document ID: JP 57080340 A JP 83005174 B

L2: Entry 29 of 30

File: DWPI

May 19, 1982

DERWENT-ACC-NO: 1982-53176E

DERWENT-WEEK: 198226

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TITLE: Basic aluminium lactate prodn. - from lactic acid and aluminium salt-carbonate reaction prod.[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#) 30. Document ID: DE 2403306 A

L2: Entry 30 of 30

File: DWPI

Jul 31, 1975

DERWENT-ACC-NO: 1975-52673W

DERWENT-WEEK: 197532

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TITLE: Growing yeasts for baking or for use as protein food - in mixed culture of lactic acid bacteria and yeasts assimilating lactic acid[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)[KMC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)[Print](#)

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